

Title (en)

USE OF THE POLARITY OF A THERMAL EMISSION FOR THE DETECTION OF 3D-STRUCTURES

Title (de)

NUTZUNG DER POLARISATION DER WÄRMESTRAHLUNG ZUR DETEKTION VON 3D-STRUKTUREN

Title (fr)

UTILISATION DE LA POLARITÉ D'UNE ÉMISSION THERMIQUE POUR LA DÉTECTION D'UNE SURFACE TRI-DIMENSIONNELLE.

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Application

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Priority

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Abstract (en)

[origin: WO2012037955A1] The invention relates to improved monitoring or control of a machining operation on a workpiece (12), wherein a corresponding method comprises: detecting a first radiation component (28a) of a thermal radiation (28), with a first polarization of the thermal radiation, emitted by at least one surface-area element in a machining region of the workpiece; detecting a second radiation component (28b) of a thermal radiation (28), with a second polarization of the thermal radiation that is different from the first, emitted by the at least one surface-area element in the machining region of the workpiece; and determining from the detected first and second radiation components data values of a surface structure of the workpiece (12) on the at least one surface-area element.

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